

Listing of the Claims:

1-9 (canceled)

1 ~~10~~ (Currently amended) A method of ~~manufacturing a carbonaceous article~~
growing a carbon fiber, the method comprising:

contacting a carbon-containing precursor with a [metal] catalyst bed to form the
~~carbonaceous article~~ a carbon-based fiber;

applying a magnetic field near the [metal] catalyst bed during the formation of the
~~carbonaceous article~~ fiber to substantially confine the catalyst to the bed; and

separating the formed ~~carbonaceous article~~ fiber from the metal catalyst bed.

2 ~~11~~ (Original) The method according to claim ~~10~~, comprising applying the
magnetic field at a distance to produce a magnetic field of about several hundred gauss to
influence the catalyst.

3 ~~12~~ (Original) The method according to claim ~~10~~, comprising applying a
magnetic field of no less than about 100 gauss.

4 ~~13~~ (Currently amended) The method according to claim ~~10~~, comprising
heating the ~~metal catalyst bed~~ from about 100 °C to about 1000 °C.

5 ~~14~~ (Currently amended) The method according to claim ~~10~~, comprising
contacting the ~~metal catalysts~~ catalyst bed with a hydrocarbon as the carbon-containing
precursor.

6 ~~15~~ (Original) The method according to claim ~~10~~, comprising contacting the
carbon-containing precursor with an iron, nickel or cobalt-based catalyst.

11 ~~16~~ (Previously presented) A method of manufacturing a carbonaceous
article, the method comprising:

contacting a carbon-containing precursor with a metal catalyst to form the
carbonaceous article;

applying a magnetic field near the metal catalyst during the formation of the
carbonaceous article; and

separating the formed carbonaceous article from the catalyst by applying a stream
of gas.

7 ~~17~~ (Currently amended) The method according to claim ~~10~~, comprising
forming a ~~carbonaceous article~~ fiber having a cross-section of less than one micron.

~~8~~ ~~18~~ (Currently amended) The method according to claim ~~10~~, comprising:
contacting the carbon-containing precursor with a nanosized metal catalyst at a temperature of from about 100 °C to about 1000 °C to form a nanostructured ~~carbonaceous article~~ carbon-based fiber having an aspect ratio of at least 2; and
applying a magnetic field of at least 100 gauss near the catalyst bed during the formation of the ~~carbonaceous article~~ fiber.

~~9~~ ~~19~~ (Currently amended) A method of a using a catalyst in a catalyst bed for ~~producing carbonaceous articles~~ growing a carbon-based fiber, the method comprising:

contacting a carbon-containing precursor with a catalyst bed to form a first ~~carbonaceous article~~ carbon-based fiber;

applying a magnetic field near the catalyst bed during the formation of the first ~~carbonaceous article~~ carbon-based fiber to substantially confine the catalyst to the bed;

separating the formed first ~~carbonaceous article~~ carbon-based fiber from the catalyst bed; and

reusing the catalyst bed to form a second ~~carbonaceous article~~ carbon-based fiber.

~~10~~ ~~20~~ (Currently amended) The method according to claim ~~19~~ comprising reusing the catalyst bed to form the second ~~carbonaceous article~~ carbon-based fiber without adding catalyst to the catalyst bed.